

LISTING OF CLAIMS:

1. (Currently Amended) A playback apparatus that performs title playback and application execution with a recording medium loaded therein, the recording medium having recorded thereon an index table, a plurality of operation mode objects, a plurality of playlists, and a plurality of applications, wherein

each of the applications is a Java language program in which a life cycle is managed for each title,

each of the plurality of playlists is a unit of playback specified by a digital stream and path information that specifies a playback path of the digital stream,

the index table shows a correspondence between a plurality of titles that are selectable on the recording medium and the plurality of operation mode objects,

each of the plurality of operation mode objects specifies a control procedure in a second mode that is second of two modes, a first mode being a mode in which the playback apparatus operates on a command base, the second mode being a mode in which the playback apparatus operates on an application base, and includes (i) an application management table showing an application whose life cycle is a title corresponding to each of the plurality of operation mode objects and (ii) a playlist table showing a playlist to be played back, the playback apparatus[[,]] comprising:

a playback control engine unit operable to play back the playlists ~~a digital stream that belongs to one of a plurality of titles;~~

a module manager operable to select a title from among the titles that are shown in the index table ~~control branching between the plurality of titles; [[and]]~~

a virtual machine unit operable to execute the applications; and

an output unit operable to output playback images of the playlists to a display apparatus,
and, when graphics are rendered by the applications, overlay the rendered graphics on the
playback images to obtain overlaid images and output the overlaid images to the display
apparatus, wherein

when the module manager has selected the title, the virtual machine unit starts executing
an application whose life cycle is the selected title, and

when the module manager has selected the title, the playback control engine unit starts,
without waiting for instructions from the applications, playback of a playlist that is specified by a
playlist table included in one of the operation mode objects shown in the index table, the one of
the operation mode objects corresponding to the selected title

~~a module operable to execute one or more applications,~~
~~wherein the module includes a virtual machine unit and an application manager,~~
~~when a status of the one or more applications changes to a predetermined status, the~~
~~application manager interprets the predetermined status as title execution having ended, and~~
~~performs processing to terminate the one or more applications, and~~
~~after the title execution has ended, the module manager selects a predetermined one of~~
~~the titles.~~

2. (Currently Amended) The playback apparatus of Claim 1, wherein ~~the predetermined~~
~~status is that all of the one or more applications have terminated~~ the playback control engine unit
continues playback of the playlists if the application execution by the virtual machine unit ends
before the playback of the playlists.

Claims 3-5 (Canceled)

6. (Currently Amended) A program that causes a computer to ~~simultaneously perform~~ playback of a title and execution of an application with a recording medium loaded therein, the recording medium having recorded thereon an index table, a plurality of operation mode objects, a plurality of playlists, and a plurality of applications, wherein

each of the applications is a Java language program in which a life cycle is managed for each title,

each of the plurality of playlists is a unit of playback specified by a digital stream and path information that specifies a playback path of the digital stream,

the index table shows a correspondence between a plurality of titles that are selectable on the recording medium and the plurality of operation mode objects,

each of the plurality of operation mode objects specifies a control procedure in a second mode that is second of two modes, a first mode being a mode in which the playback apparatus operates on a command base, the second mode being a mode in which the playback apparatus operates on an application base, and includes (i) an application management table showing an application whose life cycle is a title corresponding to each of the plurality of operation mode objects and (ii) a playlist table showing a playlist to be played back, wherein the program controls the computer ~~such that,~~ to execute the steps of:

selecting a title from among the titles that are shown in the index table;

playing back the playlists;

causing a virtual machine unit in the computer to execute the applications; and

outputting playback images of the playlists to a display apparatus, and, when graphics are

rendered by the applications, overlaying the rendered graphics on the playback images to obtain overlaid images and outputting the overlaid images to the display apparatus, wherein

in the application executing step, when the title has been selected, the virtual machine unit is caused to start executing an application whose life cycle is the selected title, and

in the playlist playback step, when the title has been selected in the selecting step, playback of a playlist that is specified by a playlist table included in one of the operation mode objects shown in the index table starts without waiting for instructions from the applications, the one of the operation mode objects corresponding to the selected title

~~when a status of one or more applications changes to a predetermined status, the predetermined status is interpreted as title execution having ended, and processing is performed to terminate the one or more applications, and~~

~~after the title execution has ended, a predetermined one of the titles is selected.~~

7. (Currently Amended) A playback method that causes a computer to ~~simultaneously~~ perform playback of a title and execution of an application with a recording medium loaded therein, the recording medium having recorded thereon an index table, a plurality of operation mode objects, a plurality of playlists, and a plurality of applications, wherein

each of the applications is a Java language program in which a life cycle is managed for each title,

each of the plurality of playlists is a unit of playback specified by a digital stream and path information that specifies a playback path of the digital stream,

the index table shows a correspondence between a plurality of titles that are selectable on the recording medium and the plurality of operation mode objects,

each of the plurality of operation mode objects specifies a control procedure in a second mode that is second of two modes, a first mode being a mode in which the playback apparatus operates on a command base, the second mode being a mode in which the playback apparatus operates on an application base, and includes (i) an application management table showing an application whose life cycle is a title corresponding to each of the plurality of operation mode objects and (ii) a playlist table showing a playlist to be played back, the playback method comprises the steps of: [[,]]

selecting a title from among the titles that are shown in the index table;

playing back the playlists;

causing a virtual machine unit in the computer to execute the applications; and

outputting playback images of the playlists to a display apparatus, and, when graphics are rendered by the applications, overlaying the rendered graphics on the playback images to obtain overlaid images and outputting the overlaid images to the display apparatus, wherein

in the application executing step, when the title has been selected, the virtual machine unit is caused to start executing an application whose life cycle is the selected title, and

in the playlist playback step, when the title has been selected in the selecting step, playback of a playlist that is specified by a playlist table included in one of the operation mode objects shown in the index table without waiting for instructions from the applications, the one of the operation mode objects corresponding to the selected title

wherein the playback method controls the computer such that, when a status of one or more applications changes to a predetermined status, the predetermined status is interpreted as title execution having ended, and processing is performed to terminate the one or more applications, and

~~after the title execution has ended, a predetermined one of the titles is selected.~~

Claim 8 (Canceled)

9. (New) The playback method of Claim 7, wherein in the playlist playback step, playback of the playlists is continued if the application execution by the virtual machine unit ends before the playback of the playlists.

10. (New) The program of Claim 6, wherein in the playlist playback step, playback of the playlists is continued if the application execution by the virtual machine unit ends before the playback of the playlists.